

Course guide 820035 - TFGB - Bachelor's Thesis

Last modified: 14/06/2023

Unit in charge: Barcelona East School of Engineering

Teaching unit: 710 - EEL - Department of Electronic Engineering.

Degree: BACHELOR'S DEGREE IN BIOMEDICAL ENGINEERING (Syllabus 2009). (Project subject).

Academic year: 2023 ECTS Credits: 24.0 Languages: Catalan, Spanish, English

LECTURER

Coordinating lecturer: Velasco Quesada, Guillermo

Others: Velasco Quesada, Guillermo

PRIOR SKILLS

It is convenient to have passed all the compulsory subjects of the curriculum.

REQUIREMENTS

The Bachelor project will be carried out, as a general rule, in the last semester of the degree. The Project should be enrolled in the last semester of the degree, when the student has a maximum of 36 ECTS to be completed. Registering the Project is a prerequisite for enrollment.

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:

CEBIO-TFG. (ENG) Realitzar, presentar y defendre davant un tribunal universitari un exercici original realitzat individualment, consistent en un projecte dins l'àmbit de la ingenyeria biomèdica, de naturalesa professional, en el que es sintenitzin les competències adquirides a l'ensenyament.

Transversal:

01 EIN N3. ENTREPRENEURSHIP AND INNOVATION - Level 3. Using knowledge and strategic skills to set up and manage projects. Applying systemic solutions to complex problems. Devising and managing innovation in organizations.

02 SCS N3. SUSTAINABILITY AND SOCIAL COMMITMENT - Level 3. Taking social, economic and environmental factors into account in the application of solutions. Undertaking projects that tie in with human development and sustainability.

04 COE N3. EFFICIENT ORAL AND WRITTEN COMMUNICATION - Level 3. Communicating clearly and efficiently in oral and written presentations. Adapting to audiences and communication aims by using suitable strategies and means.

06 URI N3. EFFECTIVE USE OF INFORMATION RESOURCES - Level 3. Planning and using the information necessary for an academic assignment (a final thesis, for example) based on a critical appraisal of the information resources used.

07 AAT N3. SELF-DIRECTED LEARNING - Level 3. Applying the knowledge gained in completing a task according to its relevance and importance. Deciding how to carry out a task, the amount of time to be devoted to it and the most suitable information sources.

03 TLG. THIRD LANGUAGE. Learning a third language, preferably English, to a degree of oral and written fluency that fits in with the future needs of the graduates of each course.

TEACHING METHODOLOGY

Student activities leaded by the professor.

Reading teaching material, texts and articles related to the contents of the subject.

Student's autonomous work

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LEARNING OBJECTIVES OF THE SUBJECT

Make a technical document.

Manage an engineering project using the usual instruments.

Analyze the technical and socio-economic viability of the project.

Find useful information and use it autonomously.

Solve problems arising from the scope of the project, autonomously or in collaboration with others.

Develop a complete and complete project.

STUDY LOAD

Туре	Hours	Percentage
Guided activities	144,0	24.00
Self study	456,0	76.00

Total learning time: 600 h

CONTENTS

title english

Description:

Preliminary Project, final Project and viablity. Phases and concepts

Full-or-part-time: 55h Guided activities: 25h Self study: 30h

title english

Description: content english

Full-or-part-time: 55h Guided activities: 25h Self study: 30h

title english

Description:

Planning and valuation of resources, viability

Full-or-part-time: 55h Guided activities: 25h Self study : 30h



title english

Description: content english

Full-or-part-time: 55h Guided activities: 25h Self study: 30h

title english

Description: content english

Full-or-part-time: 125h Guided activities: 25h Self study: 100h

title english

Description: content english

Full-or-part-time: 45h Guided activities: 15h Self study: 30h

title english

Description: content english

Full-or-part-time: 100h Self study: 100h

title english

Description: content english

Full-or-part-time: 106h Self study: 106h

title english

Description: content english

Full-or-part-time: 4h Guided activities: 4h



GRADING SYSTEM

Evaluation from the presentation of a preliminary draft and a public presentation of the work before an assigned university commission. The commission will be take into account:

- Individual work
- Written and oral presentation related to the contents of the subject
- Written and oral presentation of the project before the commission that will assess the acquired competences knowledges and abilities.

EXAMINATION RULES.

In order to be able to present the work before the assigned commission, the final revision and authorization by the professor director of the final report is necessary.

The work must be presented according to the normalization established by the School. For this purpose, the student will find all the information and templates on the website of the School.